

ABHAY VENKATESH

abhay.venkatesh@gmail.com · +1 (608) 504 0464
linkedin.com/in/abhayvenkatesh · abhayvenkatesh.com

OVERVIEW

- Abhay Venkatesh is a *Tech Lead* at Anduril Industries, where he focuses on Autonomy Infrastructure, Simulation Infrastructure, Command-And-Control, and Lattice
- Abhay is mentored by **Jared Newman**, *Head of Platform* at Anduril, and **Nabil Enayet**, *Group Lead for Platform* at Anduril
- Prior to his Tech Lead role, Abhay worked directly under **Brian Schimpf**, *CEO and Co-Founder of Anduril*, and *ex-Director of Engineering at Palantir*, on Perception problems ranging from Edge Inference, Quantized Learning and Inference, to Object Detection and Mapping
- Abhay graduated from the University of Wisconsin-Madison with *Distinction and Departmental Honors with a Bachelor of Science in Computer Sciences and Mathematics*
- At the University of Wisconsin-Madison as an *Research Assistant*, Abhay worked on Computer Science research, focusing on Machine Learning, Computer Vision, Robotics, Human-Computer Interaction, Internet of Things, and Big Data Systems
- For his Machine Learning and Computer Vision Research, Abhay was advised by **Dr. Vikas Singh**, *Professor of Computer Science and Bioinformatics* at the University of Wisconsin-Madison
- For his Big Data Systems Research, Abhay was advised by **Dr. Shivaram Venkataram**, *Assistant Professor of Computer Science* at the University of Wisconsin-Madison
- For his Human-Computer Interaction and Robotics Research, Abhay was advised by **Dr. Bilge Mutlu**, *Professor of Computer Science* at the University of Wisconsin-Madison
- Abhay has also worked at Facebook as a *Software Engineer Intern* on the News Feed Integrity Team, where he worked on machine learning, modeling, and product to improve the quality of the Facebook News Feed
- At Stanford University, Abhay was a *Research Intern* working on Robotics, Human-Computer Interaction, and Software Platform research advised by **Dr. Wendy Ju**, and **Dr. Michael Bernstein**
- In High School, Abhay was the *Valedictorian* for his breadth of excellence ranging from music and competitive quizzing to academics and entrepreneurship

EXPERIENCE

Anduril Industries <i>Software Engineer</i>	Irvine, CA May 2019 —
University of Wisconsin-Madison <i>Research Assistant</i>	Irvine, CA September 2016 — May 2019
Facebook, Inc. <i>Software Engineer Intern</i>	Menlo Park, CA May 2018 — August 2018
Stanford University <i>Research Intern</i>	Stanford, CA June 2017 — September 2017
Startup at Top Business School <i>Product Manager Intern</i>	May 2016 — August 2016

EDUCATION

Stanford University Computer Science (Non-Degree)	Stanford, CA <i>Summer Session (GPA 4.0)</i>
University of Southern California B.S. Computer Science	Los Angeles, CA <i>Admitted but did not enroll</i>
University of Wisconsin-Madison	Madison, WI

PUBLICATIONS

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- Generating Accurate Pseudo-Labels in Semi-Supervised Learning and Avoiding Overconfident Predictions via Hermite Polynomial Activations**, CVPR 2020
- Generating Accurate Pseudo-labels via Hermite Polynomials for SSL Confidently**, Best Student Paper at MMLS 2019
- Nondecomposable Data Dependent Regularizers offer Significant Performance Gains**, DeepMath 2019
- Optimizing Nondecomposable Data Dependent Regularizers via Lagrangian Reparameterization offers Significant Performance and Efficiency Gains**, AAAI 2019, Ranking method on the Microsoft COCO Leaderboard
- The Case for Unifying Data-loading in Machine Learning Clusters**, HotCloud 2019, In Collaboration with Microsoft Research
- Learning View Invariant Semantic Segmentation for UAV Video Sequences**, SDM 2018, In Collaboration with American Family Insurance

TEST SCORES

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- GRE Composite** 99th Percentile
GRE Analytical Writing 99th Percentile
GRE Verbal Reasoning 98th Percentile
SAT Math 97th Percentile

HIGHLIGHTED COURSEWORK

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- Stanford CS 161** *Design and Analysis of Algorithms*
- UW-Madison CS 564** *Database Management Systems*
- UW-Madison CS 838** *Graduate Learning Methods in Computer Vision*
- UW-Madison CS 766** *Graduate Computer Vision*
- UW-Madison CS 760** *Graduate Machine Learning*
- UW-Madison CS 744** *Big Data Systems*
- UW-Madison CS 540** *Artificial Intelligence*
- UW-Madison CS 537** *Operating Systems*
- UW-Madison Math 531** *Advanced Probability Theory*
- UW-Madison Math 525** *Linear Programming*
- UW-Madison Math 521** *Analysis I*
- UW-Madison Math 522** *Analysis II*

AWARDS

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| Edison Award | USA |
| <i>Awarded to Anduril for the Ghost Product which Abhay contributed to</i> | 2021 |
| Cornell, Maryland, and Max Planck Pre-Doctoral Research Fellowship | Germany |
| <i>Internationally recognized award, fully-funded seminar at the Max-Planck Institute</i> | 2018 |
| Hilldale Undergraduate Research Fellowship | Madison, WI |
| <i>Research award and funding</i> | 2018 |
| Phi Kappa Phi Nominee | Madison, WI |
| <i>Top 7.5% of all juniors</i> | 2018 |
| Course Citation | Madison, WI |
| <i>CS 564: Database Management Systems</i> | 2018 |
| The Hub CS Club Coding Competition | Madison, WI |
| <i>1st place</i> | March, 2017 |
| Award Winning Exhibit | Madison, WI |
| <i>Wisconsin Engineering EXPO</i> | March, 2017 |
| Dean's Award of Excellence | Madison, WI |
| <i>Awarded to Madison Enactus of which Abhay was the VP of Technology</i> | 2016 |
| Best Social Entrepreneurship Project, Transcend | Madison, WI |
| <i>Awarded to Madison Enactus of which Abhay was the VP of Technology</i> | 2016 |

John W. Jung Memorial Scholarship <i>Awarded by UW-Madison for leadership, excellence, and service.</i>	Madison, WI 2016
Dean's List <i>University of Wisconsin-Madison</i>	Madison, WI 2016
High School Valedictorian <i>To the best overall student</i>	December, 2015
National 3rd Place in Top Tech Quiz <i>Prestigious national award out of 15,000 participants across the country</i>	December, 2014
Acknowledgement by Head of State <i>For Founding a Successful Not-For-Profit</i>	December, 2014
State Recommendation <i>For Founding a Successful Not-For-Profit</i>	December, 2014

LEADERSHIP

Judge <i>Contrary Talent Hacks</i>	February, 2021
Judge <i>DubHacks</i>	October, 2020
Judge <i>HackThis by HackIllinois</i>	August, 2020
Judge <i>GarudaHacks</i>	August, 2020
President, Co-Founder <i>AI at UW, ai.cs.wisc.edu</i>	2017
VP of Technology <i>Madison Enactus</i>	2016
Executive <i>The Hub CS Club</i>	2016
Chief Technology Officer <i>Insight Wisconsin</i>	2016
Executive <i>Transcend</i>	2015
Co-Founder <i>Model United Nations</i>	2014
Co-Founder <i>Soccer Cup</i>	2014
Co-Founder <i>Student Parliament</i>	2013
Quizmaster <i>Top Engineering University</i>	2013

ORGANIZATIONS

Contrary Talent <i>Member (~100 selected out of 2200+)</i>	contrarycap.com/talent
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REFERENCES

Brian Schimpf, CEO and Co-Founder at Anduril Industries, ex-Director of Engineering at Palantir

Jared Newman, Head of Platform at Anduril Industries

Nabil Enayet, Platform Group Lead at Anduril Industries

Dr. Vikas Singh, Professor of Computer Sciences and Bioinformatics at the University of Wisconsin-Madison

Dr. Shivaram Venkataraman, Assistant Professor of Computer Sciences at the University of Wisconsin-Madison

Dr. Theodoros Rekatsinas, Assistant Professor of Computer Sciences at the University of Wisconsin-Madison

Dr. Bilge Mutlu, Professor of Computer Sciences at the University of Wisconsin-Madison